

[illegible]



[illegible]

**Fig. 4**

1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 1550 1560  
ATGGTGCAGACCAACAAAGATGAGTGGCGACCTGCCTGAAATGTGTAATCTGGTAATCTGCTGATGATAGATTCCTCCCTGGCATCACGGGAAGGCG  
M V C R P A K D E C P L E M C N G K S G N C P D D R F Q V N G F P C H G K G  
1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670 1680  
CACTGCTTGATGGGGACATGCCACACTGCAGAGCAGTGCACAGACTGTGGGACCAAGCAACTGAGGTTCAGATGAAGTTCAGAGGTGGGTCAAAGTACGGG  
H C L M G T C P T L Q E O C T E L W G P G T E V A D K S C Y N R N E G G S K Y G  
1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1790 1800  
TACTGTGCAGAGTGGATGACACACTCATTCCTGCCAAGCAAGTAATGATACCATGTGTGGGAAGTGTCTGTCAAGTGGTGGGATGAATTTGCCCTGGAAAGCAGCGATAGTCACTTTC  
Y C R R V D D T L I P C K A N D T M C G K L F C Q G G S D N L P W K G R I V T F  
1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920  
CTGACATGTAAACATTTCATCTCAAGACACAACTCAAGCAATAGGCATGGTGGCCAAATGGAACCTAAGTGTGGCGATACAAAGTTTGCATTAAATGCAGAAATGTGTGGATATTGAGAAA  
L T C K T F D P E D T S O E I G H V A N G T K C G D N K V C I N A E C V D I E K  
1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 2030 2040  
GCCTACAAATCAACCAATTGCTCATCTAAGTGCAAGGACATGCTGTGTGACCATGACCTCCAGTGTCAATGTGAGGAGGATGGATCCCTCCGACTCCGATGACTCCTCAGTGGTC  
A Y K S T N C S S K C K G H A V C D H E L O C C E G W I P P D C D S S V V  
2050 2060 2070 2080 2090 2100 2110 2120 2130 2140 2150 2160  
TTCCACTTCTCCATTGTGGTGGTGTCTCCCAATGGCGGTCAATTTTGTGGTGTCTATGTTAATCCGGCACCAGAGCTCCAGAGAAAGCAGAGAAAGATCAGAGGCCACTA  
F H F S I V V G V L F P M A V I F V V V A M V I R H Q S S R E K Q K D O R P L  
2170 2180 2190 2200 2210 2220 2230 2240 2250 2260 2270 2280  
TCTACCCTGGCACCAGGCCACACAAACAGAGAGGAAACCCAGATGGTAAAGCGTGTCAACCCCAAGAGATGAGTCAGATGAAGCCCATGTGTATGATCTGCCAGTAGAAGGCAAT  
S T T G T R P H K Q K R K P Q H V K A V Q P Q E M S O M K P H V Y D L P V E G N  
2290 2300 2310 2320 2330 2340 2350 2360 2370 2380 2390 2400  
GAGCCCCAGCCCTTTTCATAAAGACACAAAGCGACTTCCCTTACTGTCTTTCAAGGATAATCAATGTCTACACCTAAGGACTCAATCCAAAAGCATGAAGCAACAGCTAAGCAAGA  
E P P A S F H K O T N A L P P T V F K D N P M S T P K D S N P K A  
2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 2510 2520  
ACTAATGGCTAATTACACTTGGAAAACCTGGAAAATCTGGATGGCAGAGAAATATACTATCTACCAGTATTTGCTCTCGACTCAAGAGGTTAACATTTTCTGATTCATGTTAGACT  
TTGAAGAGACTAAAGAAAATTTTCAAGAGGAACATATGCTGAGAACCTTTGCGATGAATTTTAAATTTCAATTTATCCATTTCTTATAAGGAAGGAGATGATTGTAAGAAATATCTCCGAA  
2530 2540 2550 2560 2570 2580 2590 2600 2610 2620 2630 2640  
TTGAAGAGACTAAAGAAAATTTTCAAGAGGAACATATGCTGAGAACCTTTGCGATGAATTTTAAATTTCAATTTATCCATTTCTTATAAGGAAGGAGATGATTGTAAGAAATATCTCCGAA  
2650 2660 2670 2680 2690 2700 2710 2720 2730 2740 2750 2760  
GTAAAAATCTGTAATAGGAATTGATTCTCTAATGAAAACAAAACATAAAACATCACACTAATCTTGGAGGAATAAGAAAAATTTGATACATCCATTAAATGTACAATTGATTGCAAC  
2770 2780 2790 2800 2810 2820 2830  
ATCTTGATTGTTTTAACCATTAACCTTGTCAAATTACAAATCACAGTTAAGAAAATGATGTAATAATCTG

Fig. 5

